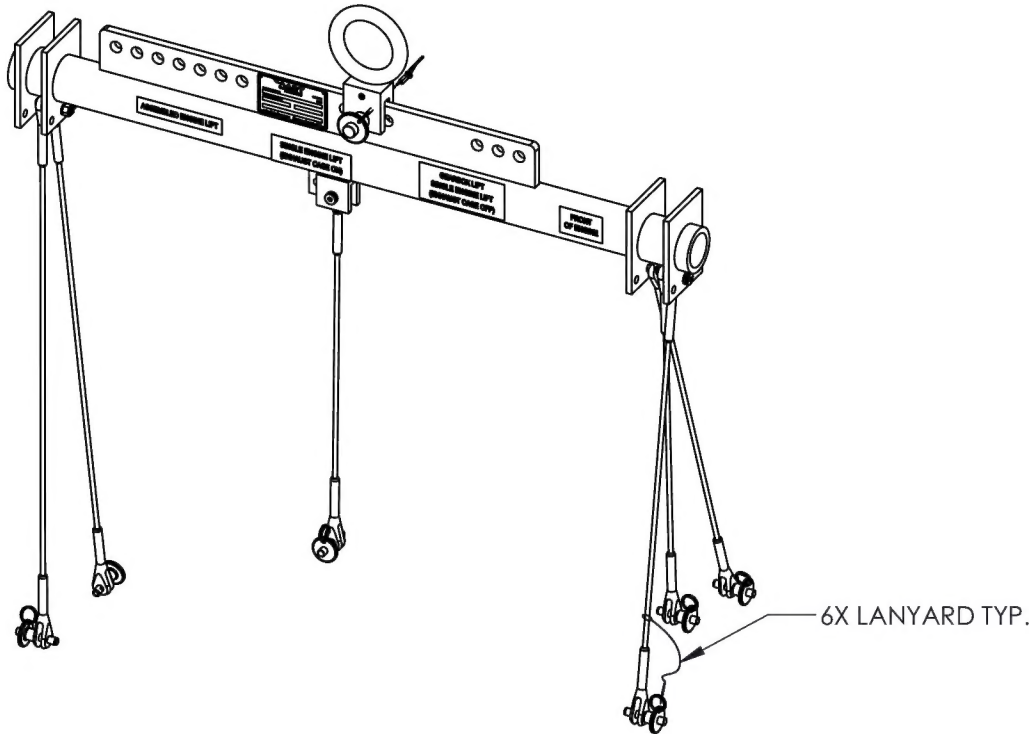
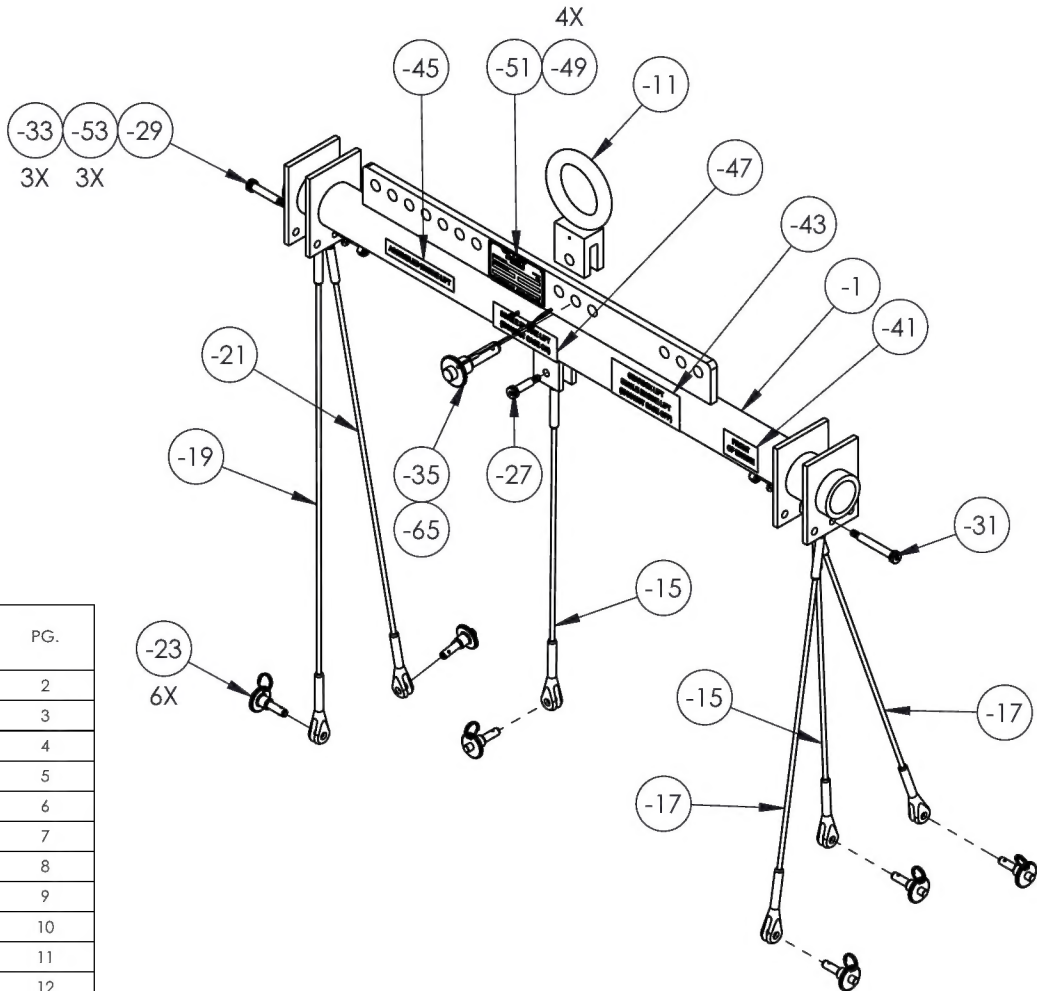


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
A		-9 CH'D BOM MATERIAL SIZE WAS 3/8 X 1-7/8 X 20-5/8 IS 3/8 X 2-1/8 X 20-5/8. -13 CH'D BOM MATERIAL SIZE WAS 1-1/4 X 1-7/8 X 1-7/8 IS 1-1/4 X 1-7/8 X 2-1/8. -55 CH'D QTY WAS 2 IS 1 IN -15 ASSY.	5/19/2014	DPD	RJC
B	14-0091	CH'D TITLE BLOCK WAS RED BARN IS DART. -51 CH'D PLACARD WAS RED BARN IS DART.	7/25/2014	DPD	RJC



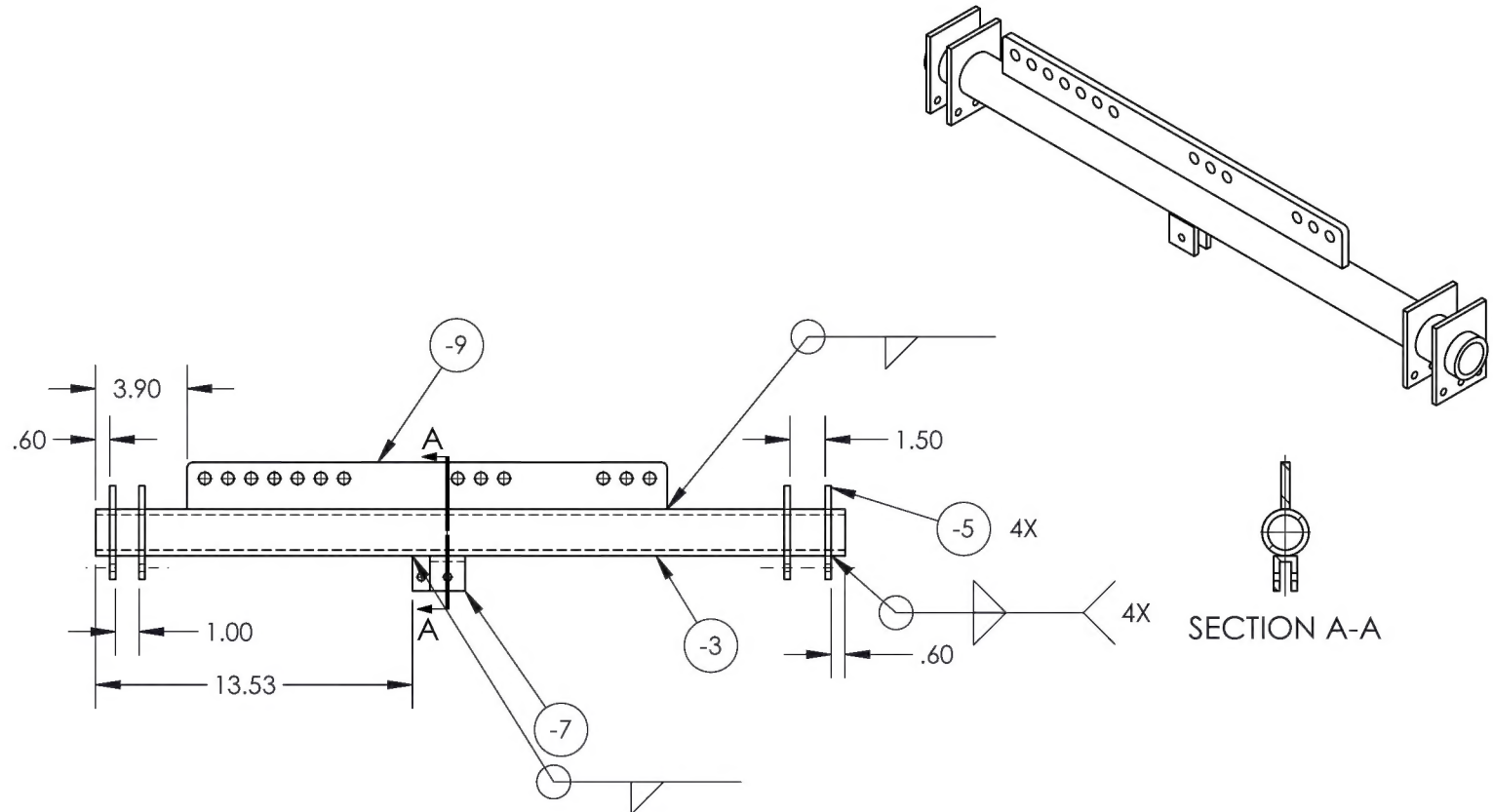
ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
					X		-1	1	WELDMENT	6061		2
					1		-3		TUBE	6061	1/4 WALL X Ø2 X 32	3
					4		-5		PLATE	6061	1/4 X 3-1/8 X 4-1/8	4
					1		-7		BLOCK	6061	1-1/8 X 1-5/8 X 2-3/8	5
					1		-9		PLATE	6061	3/8 X 2-1/8 X 20-5/8	6
				X			-11	1	WELDMENT	6061		7
				1			-13		BLOCK	1018	1-1/4 X 1-7/8 X 2-1/8	8
			X				-15	2	17in CABLE ASSEMBLY	EUGENE EQUIPMENT		9
		X					-17	2	20in CABLE ASSEMBLY	EUGENE EQUIPMENT		10
	X						-19	1	26in CABLE ASSEMBLY	EUGENE EQUIPMENT		11
X							-21	1	26in CABLE ASSEMBLY 90°	EUGENE EQUIPMENT		12
						B/O	-23	6	QUICK RELEASE PIN	S.S.	Ø 5/16" x 3/4" CARR LANE #CL-5-BLPB-0.75	1
				1		B/O	-25		FORGED RING	STEEL	Ø5/8 X Ø3 CARR-LANE #CL-36121-FR	7
						B/O	-27	1	SOCKET HEAD SHOULDER SCREW	STEEL	Ø 5/16" X 1" SHOULDER X 1/4"-20 MCMaster-CARR #91259A583	1
						B/O	-29	1	SOCKET HEAD SHOULDER SCREW	STEEL	Ø 5/16" X 1-1/2" SHOULDER X 1/4"-20 MCMaster-CARR #91259A587	1
						B/O	-31	1	SOCKET HEAD SHOULDER SCREW	STEEL	Ø 5/16" X 2" SHOULDER X 1/4"-20 MCMaster-CARR #91259A591	1
						B/O	-33	3	NYLON INSERT HEX LOCKNUT	STEEL	1/4"-20 MCMaster-CARR #97135A210	1
						B/O	-35	1	QUICK RELEASE PIN W/ LANYARD	S.S.	Ø1/2 X 1-1/4 MCMaster-CARR #94748A615	1
						B/O	-37	12	OVAL SLEEVE	ALUMINUM	Ø1/16 X 3/8 MCMaster-CARR #3896T31	1
						B/O	-39	6	LANYARD CABLE	COATED GALV. STEEL	(7 X 7) CABLE Ø1-16 X 12 IN CARR-LANE #CL-2-C-12	1
						B/O	-41	1	STICKER	VINYL	1-1/4 X 2 SIGNS NOW	13
						B/O	-43	1	STICKER	VINYL	1-3/4 X 4 SIGNS NOW	14
						B/O	-45	1	STICKER	VINYL	3/4 X 4 SIGNS NOW	15
						B/O	-47	1	STICKER	VINYL	1-1/4 X 3-3/4 SIGNS NOW	16
						B/O	-49	4	#2 DRIVE SCREW	COATED STEEL	1/8 MCMaster-CARR #90081A074	1
						B/O	-51	1	DART PLACARD	ALUMINUM	#RB41011	1
						B/O	-53	3	FLAT WASHER	ZINC-PLATED STEEL	9/32" ID, 1/2" OD MCMaster-CARR #94744A240	1
			1			B/O	-55		17in CABLE	STEEL	Ø3/16" (7X19 STRAND)	9
		1				B/O	-57		20in CABLE	STEEL	Ø3/16" (7X19 STRAND)	10
1	1					B/O	-59		26in CABLE	STEEL	Ø3/16" (7X19 STRAND)	11,12
1	1	1	1			B/O	-61		FORK END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20667-6	9,10,11,12
1	1	1	1			B/O	-63		EYE END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20668-6	9,10,11,12
						B/O	-65	1	#2 DRIVE PAN HEAD SCREW	ZINC-PLATED STEEL	#5 - 40 X 3/8" PAN HEAD SCREW MCMaster-CARR #90272A126	1
ASSY -21	ASSY -19	ASSY -17	ASSY -15	ASSY -11	ASSY -1							

NOTES:
1. REF. BELL T/N: SWE13833.
2. ENGRAVE PLACARD (-51) T/N, S/N, "MADE IN USA", AND "MAX LOAD 900 LBS."

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833	REV B
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	DRAWN BY: MARPET APPROVED <i>D Weill</i> TREAT FINISH SPEC USED ON MODEL BELL 212, 214B, 412
SCALE 1:8	DATE 5/2/2013
SHEET 1 OF 17	

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REV	ECR	DESCRIPTION	DATE



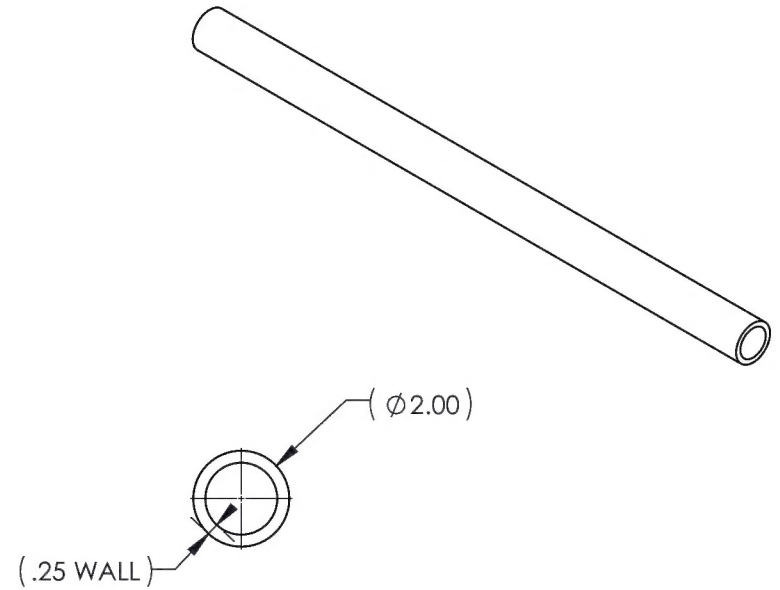
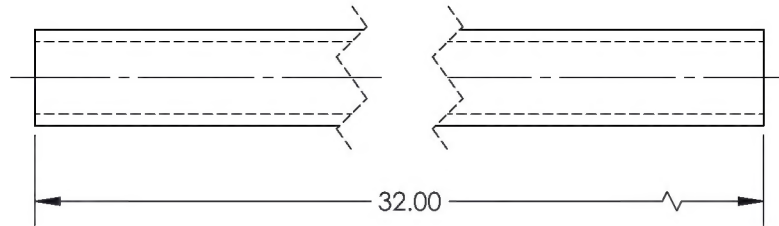
(-1)

WELDMENT

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-1	REV B
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: MARPET APPROVED <i>D Weil</i> HEAT TREAT FINISH CLEAR ANODIZE SPEC MIL-A-8625F, TYPE II, CLASS I USED ON MODEL BELL 212, 214B, 412
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 5/3/2013
SHEET 2 OF 17	

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				APPROVED

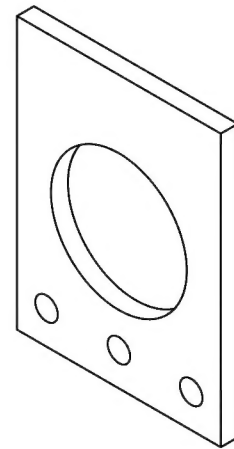
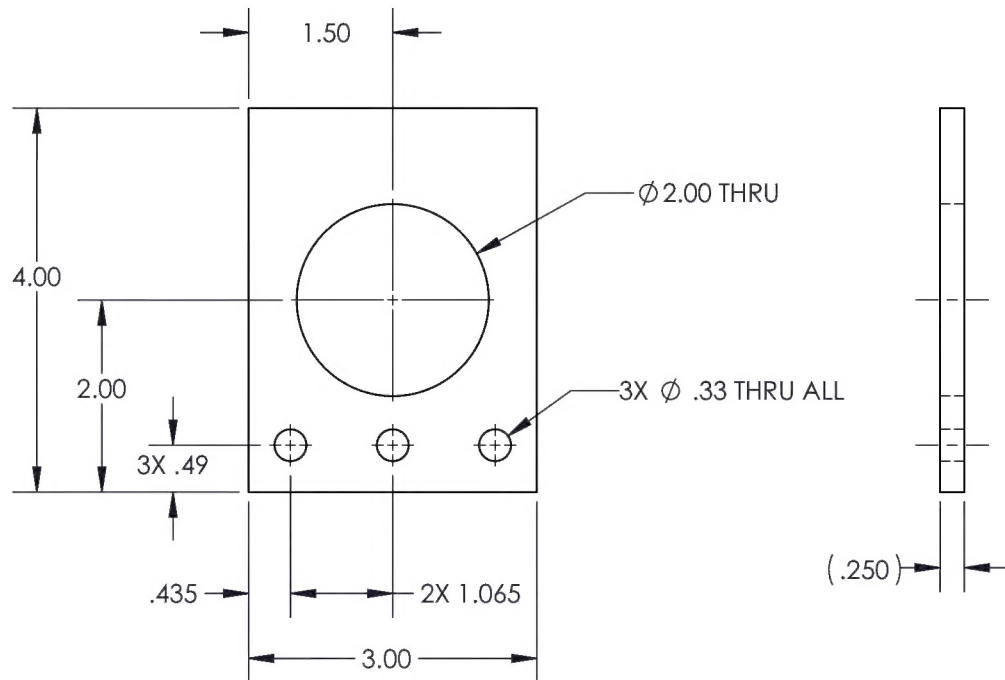


(-3)
TUBE

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-3	REV B
MAT'L 6061	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -1 WELDMENT
.X ± .1	ANGLES ± .5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:4	DATE 5/2/2013
	SHEET 3 OF 17

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			INITIAL
			APPROVED

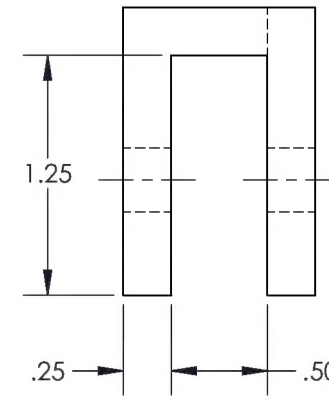
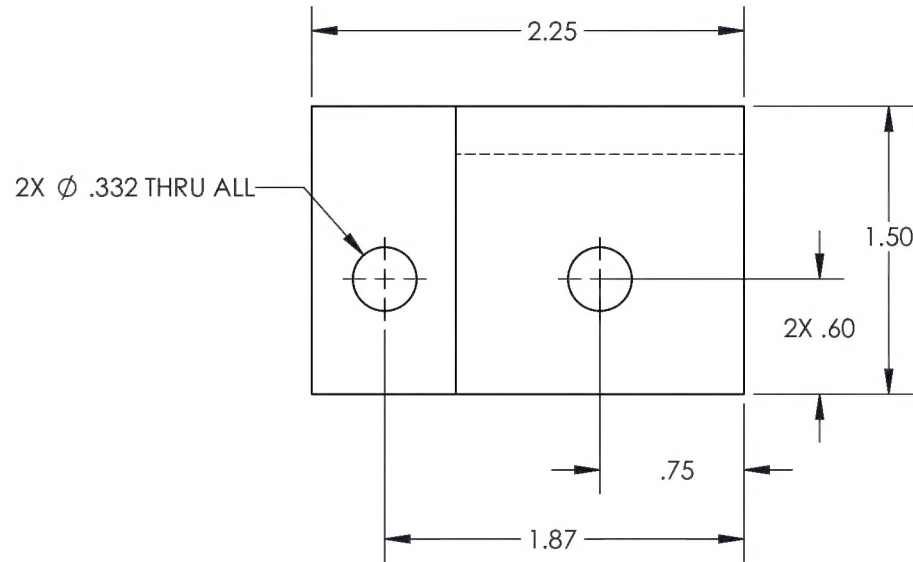
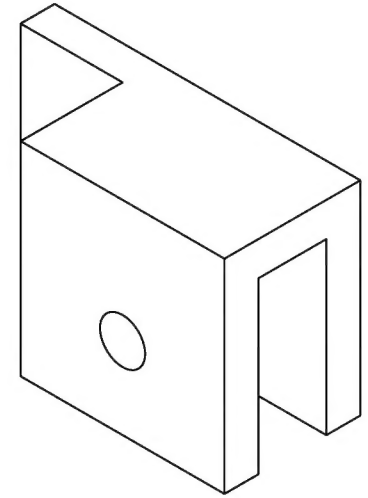
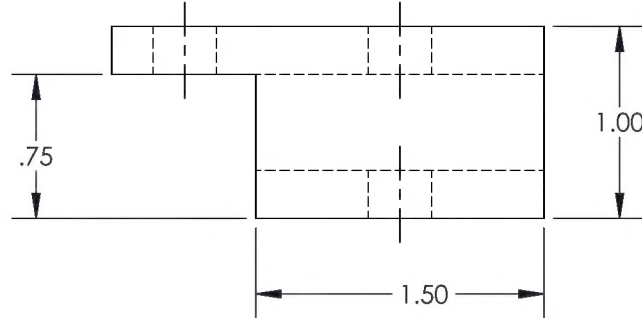


(-5)
PLATE

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-5	REV B
MAT'L 6061	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -1 WELDMENT
.X ± .1	ANGLES ± 5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:2	DATE 5/2/2013
	SHEET 4 OF 17

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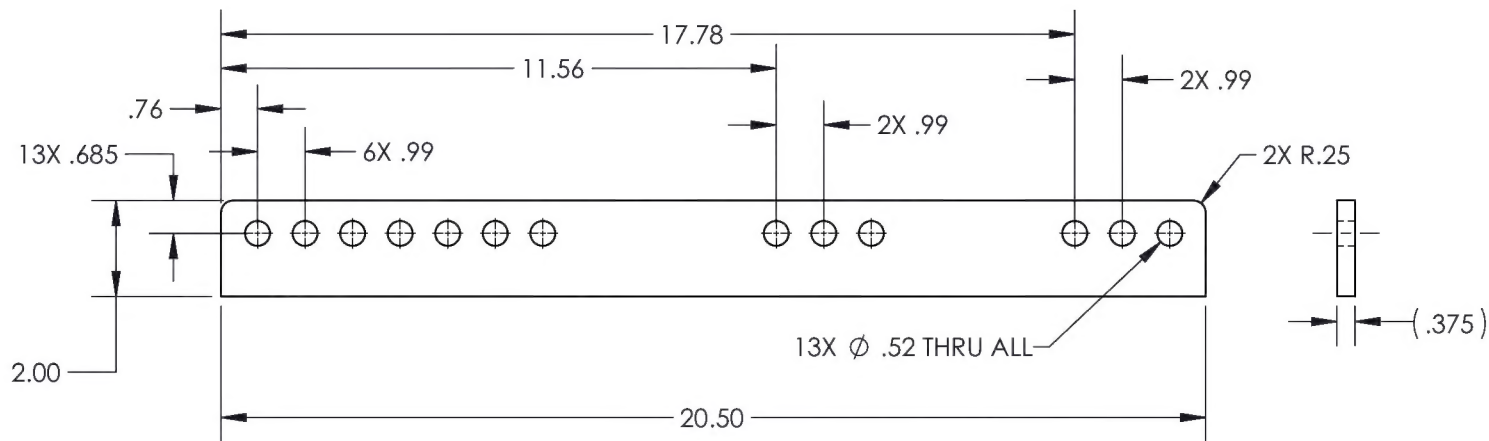
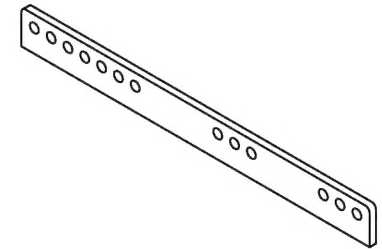


-7
BLOCK

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-7	REV B
MAT'L 6061	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -1 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL 212, 214B, 412
SCALE 1:1	DATE 5/2/2013
SHEET 5 OF 17	

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			INITIAL
			APPROVED



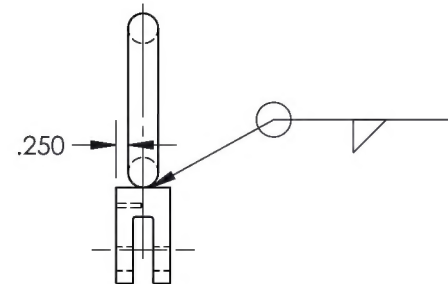
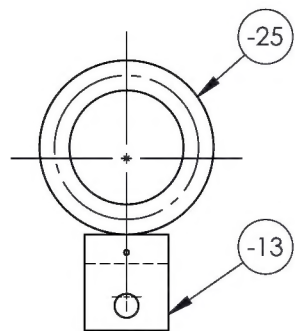
(-9)

PLATE

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-9	REV B
MAT'L 6061	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -1 WELDMENT
.X ± .1	ANGLES ± 5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:4	DATE 5/2/2013
	SHEET 6 OF 17

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REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

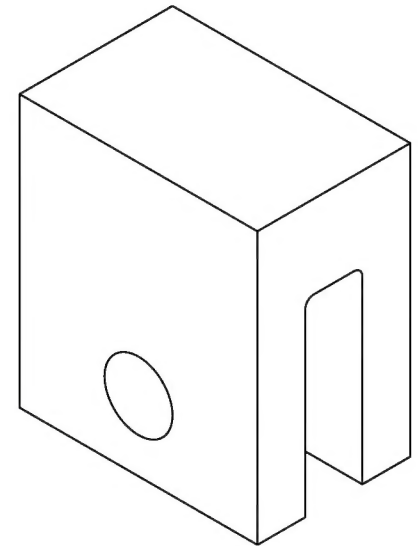
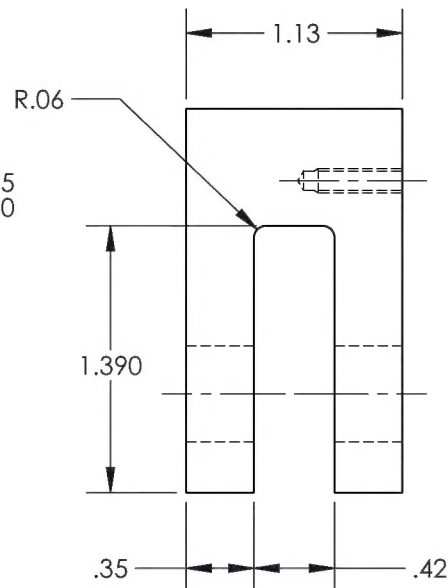
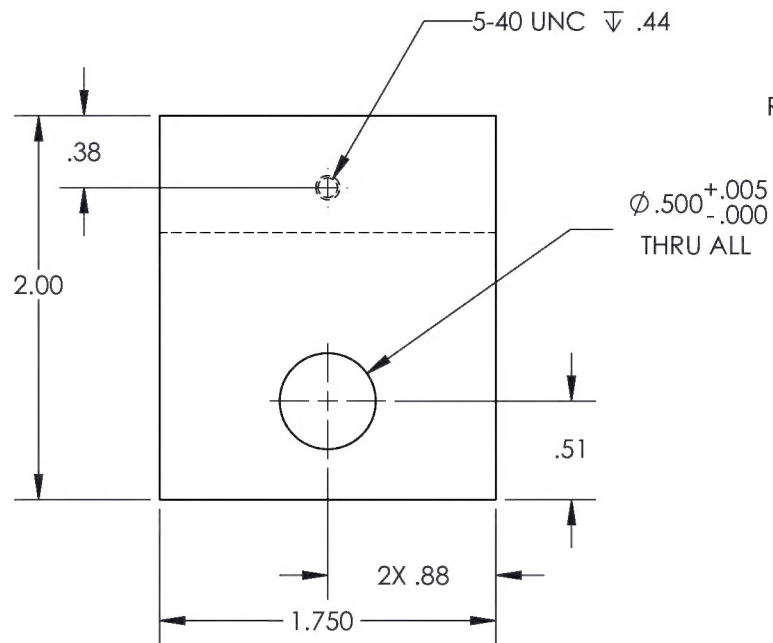


(-11)
WELDMENT

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-11	REV B
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: MARPET
.XXX ± .005	APPROVED <i>D Weil</i>
.XX ± .01	HEAT TREAT
.X ± .1	FINISH BLACK OXIDE
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:4	DATE 5/2/2013
	SHEET 7 OF 17

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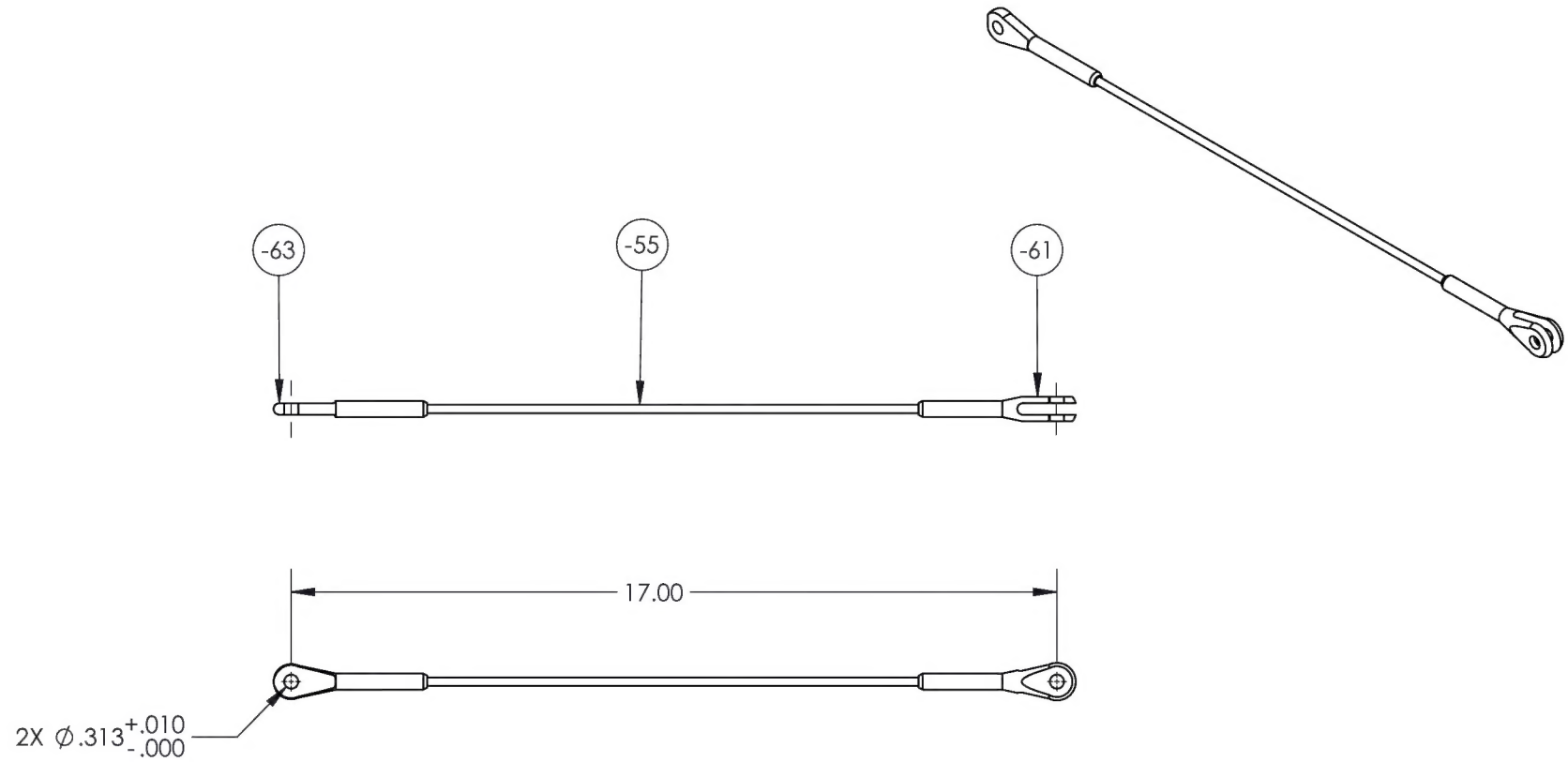


(-13)
BLOCK

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-13	REV B
MAT'L 1018	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX \pm .005	HEAT TREAT
.XX \pm .01	FINISH SEE -11 WELDMENT
.X \pm .1	ANGLES $\pm 5^\circ$
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:1	DATE 5/2/2013
	SHEET 8 OF 17

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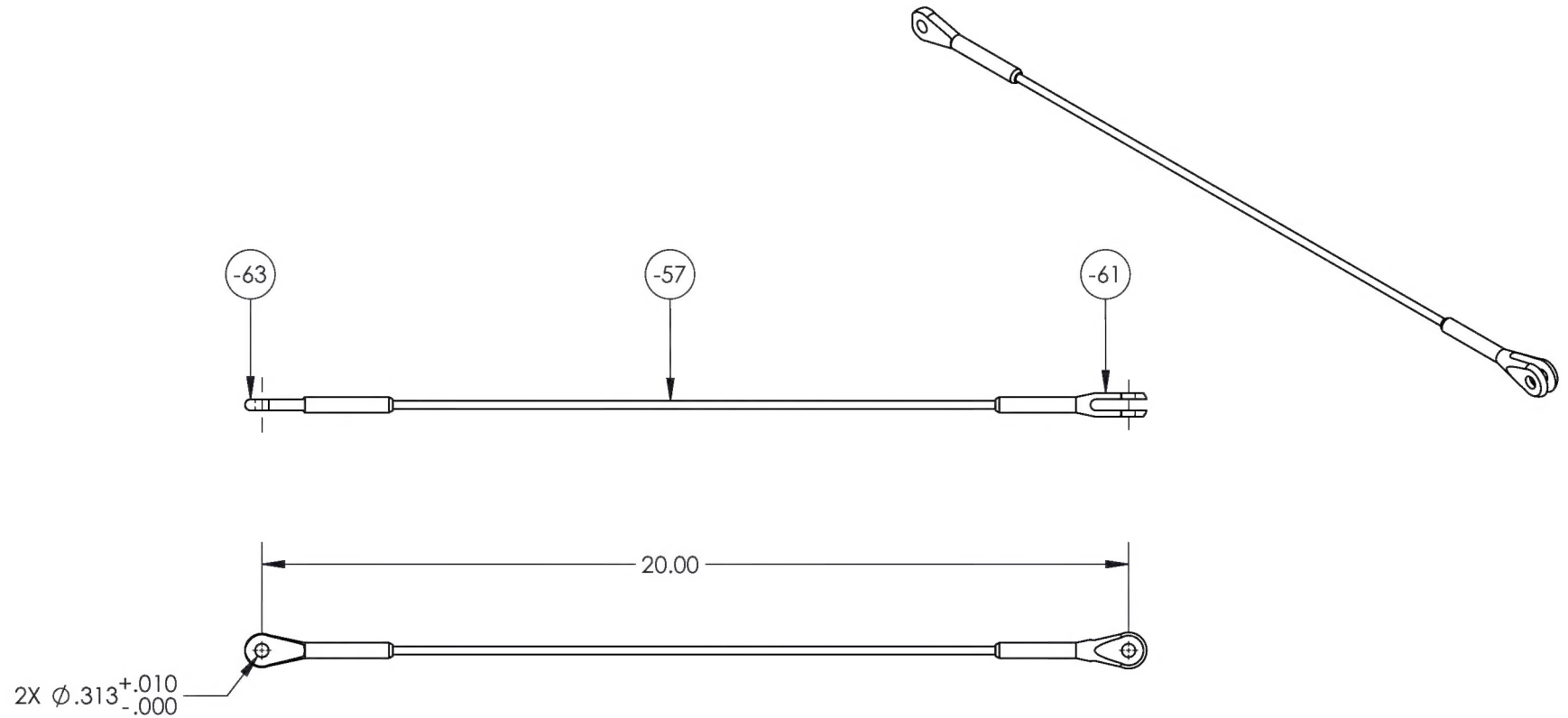
(-15)
17in CABLE ASSEMBLY

VENDOR TO SUPPLY			
PART #	DESCRIPTION	MATERIAL	B/O INFORMATION OR SPECIFICATIONS
-55	17in CABLE	STEEL	Ø3/16" (7X19 STRAND)
-61	FORK END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20667-6
-63	EYE END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20668-6

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-15	REV B
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: MARPET APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL BELL 212, 214B, 412
SCALE 1:4	DATE 5/3/2013
SHEET 9 OF 17	

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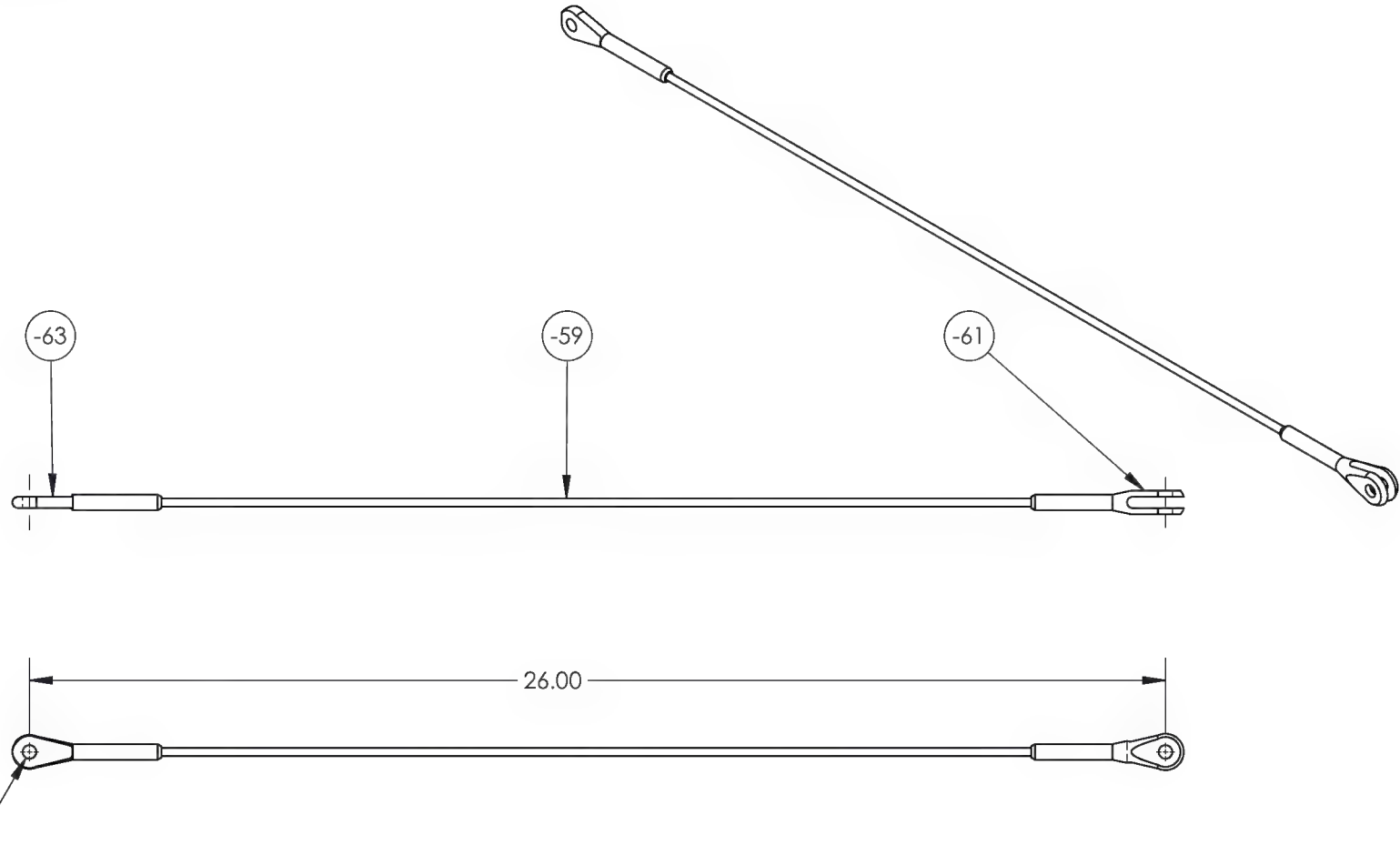
(-17)
20in CABLE ASSY

VENDOR TO SUPPLY			
PART #	DESCRIPTION	MATERIAL	B/O INFORMATION OR SPECIFICATIONS
-57	20in CABLE	STEEL	Ø 3/16" (7X19 STRAND)
-61	FORK END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20667-6
-63	EYE END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20668-6

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-17	REV B
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: MARPET APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE 5/3/2013
SHEET 10 OF 17	

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(-19)

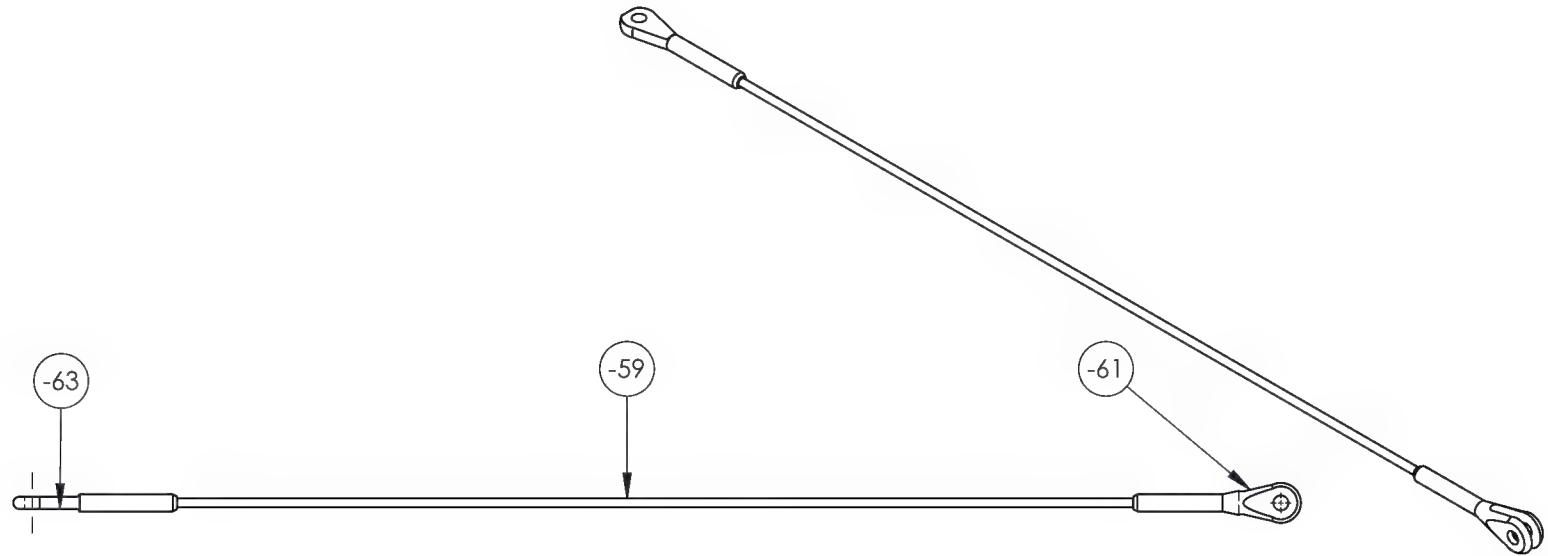
26in CABLE ASSY

VENDOR TO SUPPLY			
PART #	DESCRIPTION	MATERIAL	B/O INFORMATION OR SPECIFICATIONS
-59	26in CABLE	STEEL	Ø 3/16" (7X19 STRAND)
-61	FORK END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20667-6
-63	EYE END CABLE FITTING	S.S.	Ø 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20668-6

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-19	REV B
MAT'L	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:4	DATE 5/3/2013
SHEET 11 OF 17	

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2X $\phi .313^{+.010}_{-.000}$

NOTE:
EYE HOLES ARE 90° APART

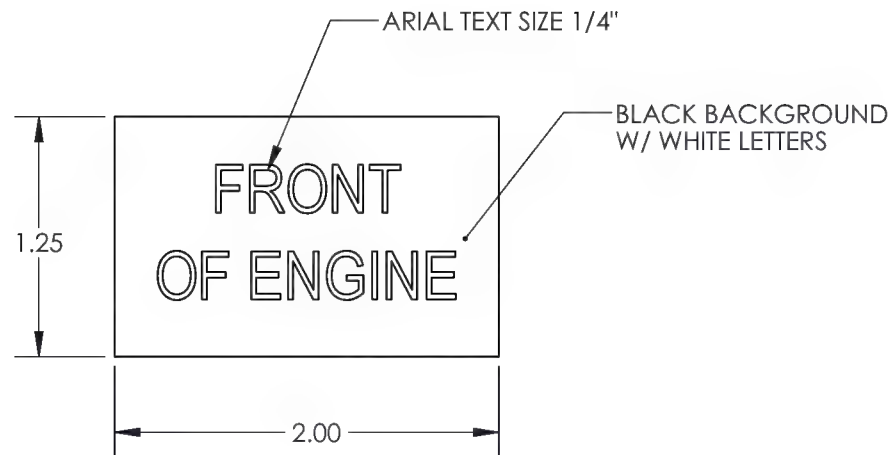
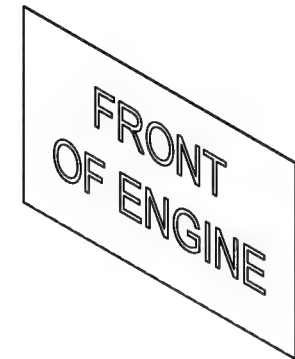
(-21)
26in CABLE ASSY

VENDOR TO SUPPLY			
PART #	DESCRIPTION	MATERIAL	B/O INFORMATION OR SPECIFICATIONS
-59	26in CABLE	STEEL	ϕ 3/16" (7X19 STRAND)
-61	FORK END CABLE FITTING	S.S.	ϕ 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20667-6
-63	EYE END CABLE FITTING	S.S.	ϕ 3/16" CABLE FITTING AIRCRAFT SPRUCE #MS20668-6

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-21	REV B
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX \pm .005 FRACTIONS \pm 1/32 .XX \pm .01 ANGLES \pm 5° .X \pm .1	DRAWN BY: MARPET APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL BELL 212, 214B, 412
SCALE 1:4	DATE 5/3/2013
SHEET 12 OF 17	

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(-41)

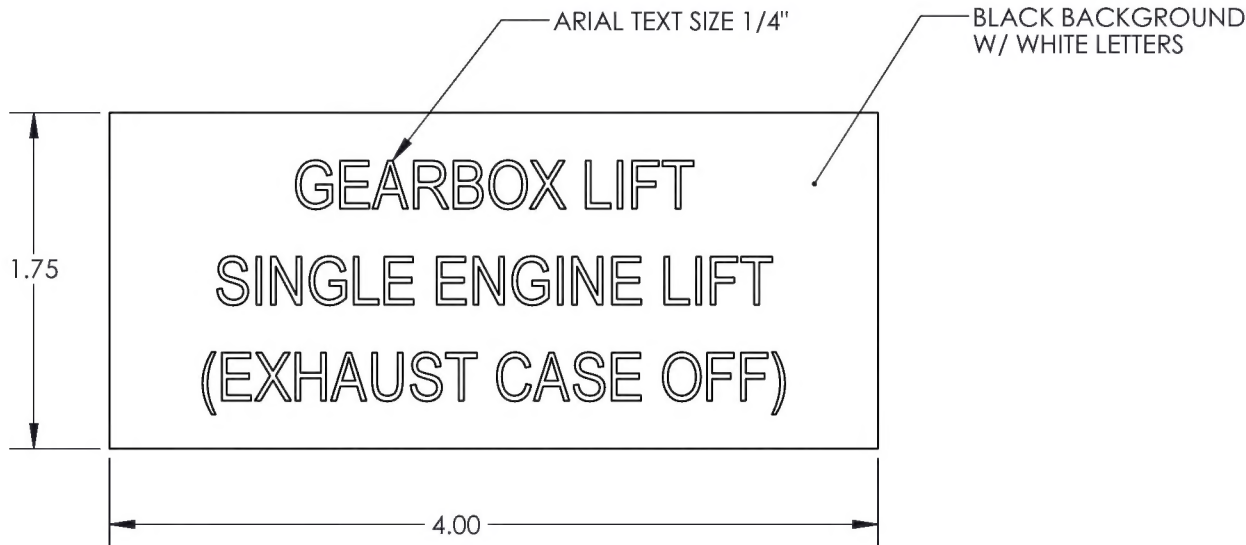
STICKER

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-41	REV B
MAT'L VINYL	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:1	DATE 5/2/2013
	SHEET 13 OF 17

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				APPROVED

GEARBOX LIFT
SINGLE ENGINE LIFT
(EXHAUST CASE OFF)



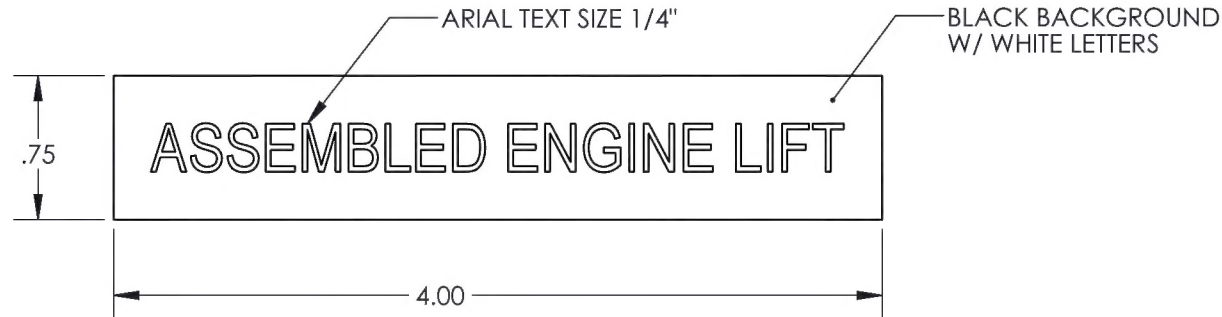
(-43)
STICKER

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-43	REV B
MAT'L VINYL	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:1	DATE 5/2/2013
	SHEET 14 OF 17

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	

ASSEMBLED ENGINE LIFT



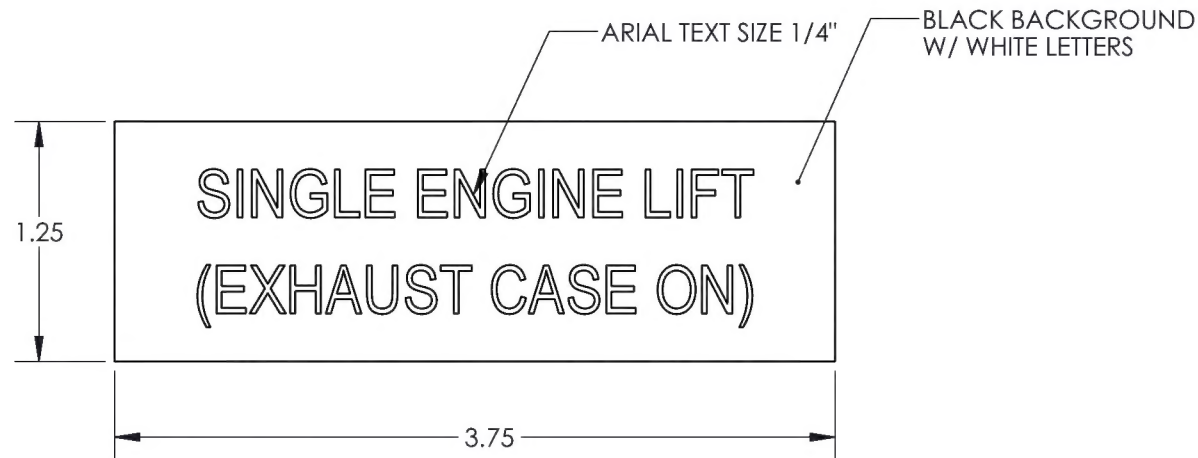
(-45)
STICKER

DART AEROSPACE	
TITLE SLING	
DWG NO. RB SWE13833-45	REV B
MAT'L VINYL	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:1	DATE 5/2/2013
	SHEET 15 OF 17

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

SINGLE ENGINE LIFT
(EXHAUST CASE ON)



-47

STICKER

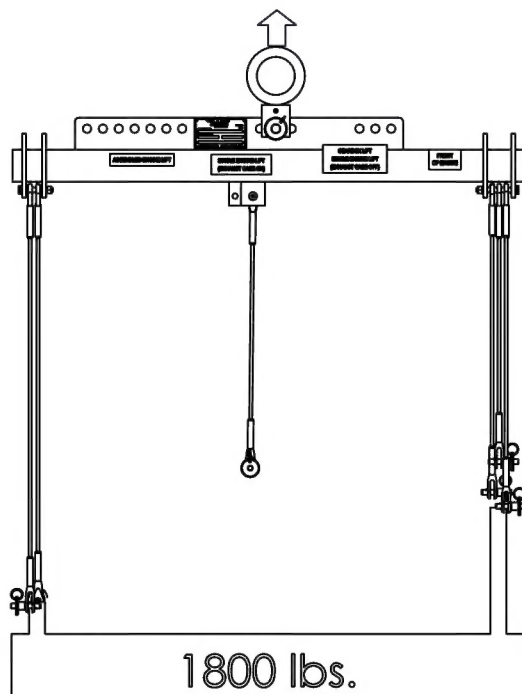
	
TITLE SLING	
DWG NO. RB SWE13833-47	REV B
MAT'L VINYL	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL 212, 214B, 412
SCALE 1:1	DATE 5/2/2013
	SHEET 16 OF 17

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REVISIONS				DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION				

RED BARN MACHINE
190 S. DANEBO AVE., EUGENE OR 97402
(541)344-9953; fax (541)344-3863
e-mail; sales@redbarn.net

FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE RB SWE13833, SLING. THIS ASSEMBLY IS DESIGNED EXCLUSIVELY FOR HOISTING AND INSTALLING/REMOVING A COMPLETE ENGINE ASSEMBLY, A SINGLE POWER SECTION, OR THE COMBINED GEARBOX ASSEMBLY THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE SLING ASSEMBLY ON A OVERHEAD LIFTING DEVICE. ATTACH CONNECTOR HOOKS TO AN APPROPRIATE TEST WEIGHT OF 1800 LBS, USE BALL LOCK PINS TO LOCK INTO FIXTURE.
2. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: _____

TESTER: _____

S.N.: _____

DATE: _____



190 S. Danebo Ave., Eugene, OR. 97402
1-800-556-4166
e-mail: sales@dartaero.com
dartaerospace.com

TITLE				SLING	
DWG NO.		REV		CUSTOMER 1 OF 1	
RB SWE13833		B			
SCALE	1:12	DATE	5/2/2013	SHEET	17 OF 17